

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ2004/000247

A. CLASSIFICATION OF SUBJECT MATTER		
Int. Cl. <sup>7</sup> : C07K 14/415		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
SEE KEYWORDS USED IN STN SEARCH INDICATED BELOW		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
STN: Files CA, WPIDS, Medline, Biosis; Keywords: amyloid fibril, wheat, glutenin, gliadin, four, heterogeneous		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2000/017328 A2 (ISIS INNOVATION LIMITED) 30 March 2000 See especially pages 3-5	1, 2, 4, 5, 10, 13-19, 22, 23
X	WO 2002/042321 A2 (ISIS INNOVATION LIMITED) 30 May 2002 Whole Document	1, 2, 4, 5, 10, 13, 22, 23
X	WO 2001/027152 A1 (ISIS INNOVATION LIMITED) 19 April 2001 See especially pages 24, 26, Example 9	1, 2, 4, 5, 10, 13-19, 22, 23
D, X	Chen S et al, "Amyloid-like features of Polyglutamine Aggregates and their assembly Kinetics", Biochemistry, Vol. 41, 2002, p 7391-7399 Whole Document	1, 2, 4, 5, 10, 13-19, 22, 23
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
* "A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed	
Date of the actual completion of the international search 27 January 2005		Date of mailing of the international search report 1 FEB 2005
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer  R.L. POOLEY Telephone No : (02) 6283 2242

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Takahashi Y et al, "Mutational analysis of designed peptides that undergo structural transition from $\alpha$ helix to $\beta$ sheet and amyloid fibril formation", Structure with Folding & Design, Vol 8 (9), 15 September 2000, pages 915-925 Whole Document	1, 2, 4, 5, 10, 13, 23
X	Takahashi Y et al, "Amyloid Architecture: Complimentary Assembly of Heterogeneous Combinations of Three or Four Peptides into Amyloid Fibrils", Chembiochem: a European Journal of Chemical Biology, Vol. 3 (7), 2 July 2002, pages 637-642 Whole Document	1, 4, 5, 10, 13, 23

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**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☒ Claims Nos.: **1, 2, 4, 5, 10, 13-19, 22-23 (all in part)**  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:  
The above claims encompass an indeterminate range of protein sources due to the indefinite ambit of the term "heterogeneous". Accordingly, the search has been largely based on sources for which there is descriptive support, namely fibrils derived from wheat or wheat protein sources.
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

### Information on patent family members

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
WO	2000/017328	EP	1115845	GB	9820555	GB	9909927
		JP	2002526508				
WO	2002/042321	AU	23886/02	EP	1335937	GB	0028710
		JP	2004521873	US	2004096852		
WO	2001027152	AU	78077/00	CA	2385123	EP	1222203
		GB	9924484	JP	2003512029		

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX